



Jefferson Lab Alignment Group

Data Transmittal

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Checked: JCD

: A1140

DETAILS:

Data: AALIGN\Electron&sh\2007\E110707A & Hadron\H110707A

Below are the results from the left and right spectrometer surveys carried out on 7th November, together with the superharp information. The table shows the angle of the central ray of the spectrometer (in degrees); the horizontal mis-pointing perpendicular to the spectrometer center-line (in mm, d is downstream); the vertical mis-pointing (in mm, +ve is up) and the corrected pointing angle if the spectrometer were moved to point exactly at the target. The last two columns give statistics for the transformation (std. dev. of fit (9par)) and the adjustment (std. dev. (3DD)).

For the superharp girder components, the DX and DY values represent the difference in millimeters from the ideal position of each fiducial, except for the calorimeter which represents the centerline.

Spectrom.	Central Ray	H Misptg	V Misptg	Corrected Ptg	9par	3DD
E110707A (Left)	-59.990	0.36 u	+0.18	-59.993	0.159	1.68
H110707A (Right)	60.017	2.77 d	+2.26	59.998	0.140	1.66

	DX	DY
Superharps		
SH1H01A	0.18	0.36
SH1H01B	0.24	0.37
SH1H01C	0.28	0.41
SH1H02A	-0.70	0.31
SH1H02B	-0.62	0.32
SH1H02C	-0.61	0.38
Cavity BPMs		
BCM1H1B	0.18	0.06
BCM1H1C	0.17	0.19
BCM1H2A	-0.74	0.21
BCM1H2D	-0.18	0.14
Calorimeter		
MBC1H04	-0.27	0.17